

the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is about 6750 Daltons;

a is a number such that the portion represented by polyoxyethylene constitutes about 10% of the compound by weight; and

5 b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes about 90% of the compound by weight.

10 3. The composition of Claim 1, wherein:
the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is about 5750 Daltons;

15 a is a number such that the portion represented by polyoxyethylene constitutes approximately 10% of the compound by weight; and

b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes about 90% of the compound by weight.

20 4. The composition of Claim 1, wherein:
the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is about 5220 Daltons;

25 a is a number such that the portion represented by polyoxyethylene constitutes about 10% of the compound by weight; and

b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes about 90% of the compound by weight.

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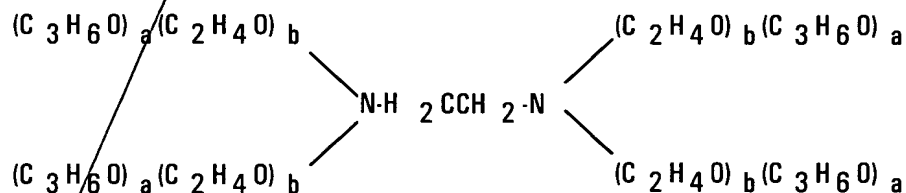
5. The composition of Claim 1, wherein the compound capable of altering nucleic acid sequence function is selected from genes, oligonucleotides, antisense oligonucleotides, triplex DNA compounds, or ribozymes.

6. The composition of Claim 1, further comprising approximately 0.1% to approximately 5% by weight of a surfactant and approximately 0.5% to approximately 5% by volume of an low molecular weight alcohol.

7. The composition of Claim 6, wherein the surfactant is Tween 80 and the alcohol is ethanol.

8. The composition of Claim 1, further comprising an expression vector, wherein the compound capable of altering nucleic acid sequence function is a nucleic acid sequence contained in the expression vector, and the expression vector is capable of expressing the nucleic acid sequence.

9. A therapeutic composition for treating a human or animal comprising,
a compound capable of altering nucleic acid function admixed with a block copolymer, wherein the block copolymer has the following formula:



wherein:

the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is between about 5000 and about 7000 Daltons;

5 a is a number such that the portion represented by polyoxyethylene constitutes between about 10% to about 40% of the compound by weight; and

10 b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes between about 60% and about 90% of the compound by weight.

Claim 9
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15 10. The composition of Claim 9, wherein:
the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is about 6750 Daltons;

20 a is a number such that the portion represented by polyoxyethylene constitutes about 10% of the compound by weight; and

25 b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes about 90% of the compound by weight.

30 11. The composition of Claim 9, wherein:
the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is about 5750 Daltons;

 a is a number such that the portion represented by polyoxyethylene constitutes approximately 10% of the compound by weight; and

b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes about 90% of the compound by weight.

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12. The composition of Claim 9, wherein:
the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is about 5220 Daltons;

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a is a number such that the portion represented by polyoxyethylene constitutes about 10% of the compound by weight; and

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b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes about 90% of the compound by weight.

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13. The composition of Claim 9, wherein the compound capable of altering nucleic acid sequence function is selected from genes, oligonucleotides, antisense oligonucleotides, triplex DNA compounds, or ribozymes.

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14. The composition of Claim 9, further comprising approximately 0.1% to approximately 5% by weight of a surfactant and approximately 0.5% to approximately 5% by volume of a low molecular weight alcohol.

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15. The composition of Claim 14, wherein the surfactant is Tween 80 and the alcohol is ethanol.

16. The composition of Claim 9, further comprising an expression vector, wherein the compound capable of altering nucleic acid sequence function is a nucleic acid sequence contained in the expression vector, and the

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18. The composition of Claim 17, wherein:

the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is about 6750 Daltons;

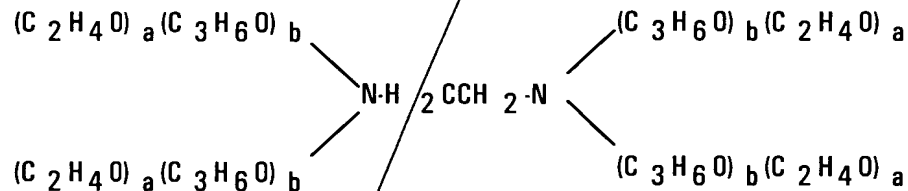
a is a number such that the portion represented by polyoxyethylene constitutes about 10% of the compound by weight; and

5 b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes about 90% of the compound by weight.

10 19. A method of delivering a compound capable of altering nucleic acid sequence function to a human or animal comprising,

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15 the step of administering to a human or animal a composition comprising a compound capable of altering nucleic acid sequence function admixed with a block copolymer, wherein the block copolymer has the following formula:



wherein:

20 the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is between about 5000 and about 7000 Daltons;

25 a is a number such that the portion represented by polyoxyethylene constitutes between about 10% to about 40% of the compound by weight; and

30 b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes between about 60% and about 90% of the compound by weight.

20. The composition of Claim 19, wherein:
the mean aggregate molecular weight of the
portion of the octablock copolymer represented by
polyoxypropylene is about 6750 Daltons;

5 a is a number such that the portion represented by
polyoxyethylene constitutes about 10% of the compound by
weight; and

10 b is a number such that the polyoxypropylene
portion of the total molecular weight of the octablock
copolymer constitutes about 90% of the compound by weight.

21. The composition of Claim 19, wherein:
the mean aggregate molecular weight of the
portion of the octablock copolymer represented by
polyoxypropylene is about 5750 Daltons;

15 a is a number such that the portion represented by
polyoxyethylene constitutes approximately 10% of the
compound by weight; and

20 b is a number such that the polyoxypropylene
portion of the total molecular weight of the octablock
copolymer constitutes about 90% of the compound by weight.

22. The composition of Claim 19, wherein:
the mean aggregate molecular weight of the
portion of the octablock copolymer represented by
polyoxypropylene is about 5220 Daltons;

25 a is a number such that the portion represented by
polyoxyethylene constitutes about 10% of the compound by
weight; and

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b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes about 90% of the compound by weight.

5 23. The method of Claim 19, wherein the compound capable of altering nucleic acid sequence function is selected from genes, oligonucleotides, antisense oligonucleotides, triplex DNA compounds, or ribozymes.

10 24. The method of Claim 19, further comprising approximately 0.1% to approximately 5% by weight of a surfactant and approximately 0.5% to approximately 5% by volume of an low molecular weight alcohol.

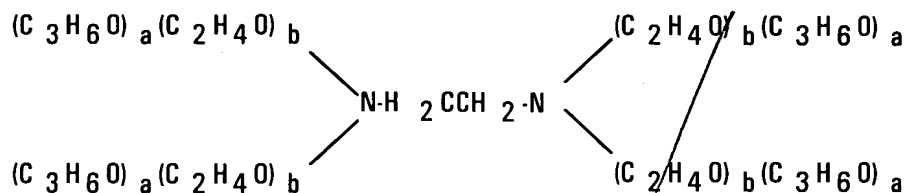
15 25. The method of Claim 24, wherein the surfactant is Tween 80 and the alcohol is ethanol.

20 26. The method of Claim 19, further comprising an expression vector, wherein the compound capable of altering nucleic acid sequence function is a nucleic acid sequence contained in the expression vector, and the expression vector is capable of expressing the nucleic acid sequence.

25 ~~27.~~ A method of delivering a compound capable of altering nucleic acid sequence function to a human or animal comprising,

30 the step of administering to a human or animal a composition comprising a compound capable of altering nucleic acid sequence function admixed with a block copolymer, wherein the block copolymer has the following formula:

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wherein:

the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is between about 5000 and about 7000 Daltons;

a is a number such that the portion represented by polyoxyethylene constitutes between about 10% to about 40% of the compound by weight; and

b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes between about 60% and about 90% of the compound by weight.

28. The composition of Claim 27, wherein:

the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is about 6750 Daltons;

a is a number such that the portion represented by polyoxyethylene constitutes about 10% of the compound by weight; and

b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes about 90% of the compound by weight.

29. The composition of Claim 27, wherein:

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the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is about 5750 Daltons;

5 a is a number such that the portion represented by polyoxyethylene constitutes approximately 10% of the compound by weight; and

10 b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes about 90% of the compound by weight.

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30. The composition of Claim 27, wherein:

the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is about 5220 Daltons;

15 a is a number such that the portion represented by polyoxyethylene constitutes about 10% of the compound by weight; and

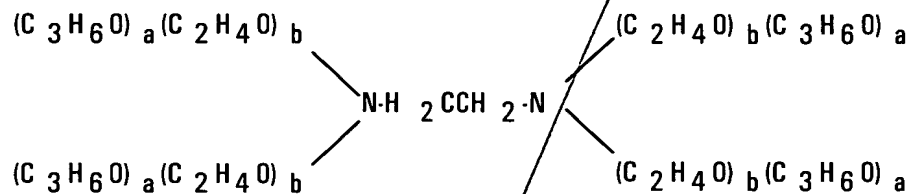
20 b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes about 90% of the compound by weight.

25 31. The method of Claim 27, wherein the compound capable of altering nucleic acid sequence function is selected from genes, oligonucleotides, antisense oligonucleotides, triplex DNA compounds, or ribozymes.

30 32. The method of Claim 27, further comprising approximately 0.1% to approximately 5% by weight of a surfactant and approximately 0.5% to approximately 5% by volume of a low molecular weight alcohol.

33. A method of delivering a compound capable of altering nucleic acid sequence function to a human or animal comprising,

the step of administering to a human or animal a composition comprising a compound capable of altering nucleic acid sequence function admixed with a block copolymer, wherein the block copolymer has the following formula:



wherein:

the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is between about 5000 and about 7000 Daltons;

a is a number such that the portion represented by polyoxyethylene constitutes between about 5% to about 20% of the compound by weight; and

b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes between about 80% and about 95% of the compound by weight.

34. The composition of Claim 33, wherein:

the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is about 6750 Daltons;

a is a number such that the portion represented by polyoxyethylene constitutes about 10% of the compound by weight; and

5 b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes about 90% of the compound by weight.

10 35. The composition of Claim 33, wherein:
the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is about 5750 Daltons;

15 a is a number such that the portion represented by polyoxyethylene constitutes approximately 10% of the compound by weight; and

b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes about 90% of the compound by weight.

20 36. The composition of Claim 33, wherein:
the mean aggregate molecular weight of the portion of the octablock copolymer represented by polyoxypropylene is about 5220 Daltons;

25 a is a number such that the portion represented by polyoxyethylene constitutes about 10% of the compound by weight; and

b is a number such that the polyoxypropylene portion of the total molecular weight of the octablock copolymer constitutes about 90% of the compound by weight.

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~~34.~~ The method of Claim 27, further comprising an expression vector, wherein the compound capable of altering nucleic acid sequence function is a nucleic acid sequence contained in the expression vector, and the expression vector is capable of expressing the nucleic acid sequence.

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